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### CRITICAL NOTES ON COSTA RICAN ORCHIDS BY OAKES AMES, F. TRACY HUBBARD AND CHARLES SCHWEINFURTH

IN THE PREPARATION of an enumeration of the orchids of Costa Rica, two new varieties were noted and it was found necessary to make a number of new combinations and new names. The present paper describes the novelties and makes the necessary nomenclatorial changes.

#### **Gomphichis costaricensis** (*Schltr.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

*Stenoptera costaricensis* Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 375.

Since we consider *Stenoptera costaricensis* to be a Gomphichis and not a Stenoptera, the transfer to that genus necessitates a new combination.

#### **Goodyera erosa** (*A. & S.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

*Epipactis erosa* Ames & Schweinfurth in Sched. Orch. 10 (1930) 9.

This species has not been transferred to Goodyera heretofore and therefore necessitates a new combination.

#### **Lepanthes Lindleyana** *Oerst. & Reichb.f.* var. **angustifolia** *Ames, Hubbard & Schweinfurth, var. nov.*

A typo foliis linearibus vel peranguste lanceolatis differt.

Leaves up to about 4.6 cm. long (3.9 cm. long in the type, 4.6 cm. long in *Stork 1699*), rarely up to 4 mm. wide, commonly appearing fleshy with revolute margins. Otherwise as in the type.

COSTA RICA, Province of San José. Oak forest near Quebradillas, about 7 km. north of Santa María de Dota. At about 1,800 meters altitude. December 24, 1925. *Paul C. Standley 43071* (TYPE in Herb. Ames No. 32871); Same data, *Paul C. Standley 43083*; Santa María. At 5,600 feet altitude. May 4, 1928. *H.E. Stork 1699*.

**Lepanthes Lindleyana Oerst. & Reichb.f. var. major Ames, Hubbard & Schweinfurth, var. nov.**

*Lepanthes fimbriata* Ames in Sched. Orch. 3 (January 1923) 11.

*Lepanthes pubilabia* Schlechter in Fedde Repert. Beihefte 19 (November 1923) 282.

A typo plus minusve major, praesertim foliis ovatis vel elliptico-ovatis differt.

Plant up to 10 cm. tall. Leaves ovate, round-ovate or elliptic-ovate, up to 4.1 cm. long and 2.2 cm. wide (2.2 cm. wide in *Stork 2063*). Sepals ovate, up to 4 mm. long (4 mm. long in the type of *L. pubilabia*), smooth on the margins and veins. Lamina of the lateral sepals scarcely broader than the dorsal sepal. Mid-lobe of lip more conspicuous than in the type.

COSTA RICA, Carpintera. At 5,000 feet altitude. Flowers brick-red. October 1923. *C.H. Lankester 543* (TYPE in Herb. Ames No. 27757); At 5,000 feet altitude. Petals orange, lip red. May 20, 1928. *H.E. Stork 2063* (Collector Karl Danielson); Ochomogo. At 1,570 meters altitude. Flowers coral-red, sepals dark. September 4, 1925. *A. Alfaro 165*; Alto de Ochomogo. At 1,550 meters altitude. December 1896. *A. Tonduz* (Herb. Inst. physico-geogr. nat. costarie. 10387) (Type of *L. fimbriata*); Vicinity of San Ramon. 1921. *G. Acosta s.n.* (Type of *L. pubilabia*).

**Pleurothallis Bradeorum** (*Schltr.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

*Barbosella Bradeorum* Schlechter in Fedde Repert. Beihefte 19 (1923) 111.

We consider the genus *Barbosella* Schltr. to be congeneric with *Pleurothallis* R. Br. The combination for this species under *Pleurothallis* has not been made previously.

**Pleurothallis cruciformis** *Ames, Hubbard & Schweinfurth, nom. nov.*

*Restrepia Reichenbachiana* Endres apud Reichenbach filius in Gard. Chron. n.s. 4 (1875) 356.

*Barbosella Reichenbachiana* Schlechter in Fedde Repert. Beihefte 19 (1923) 26.

We consider that this species belongs in *Pleurothallis*. In transferring it to that genus a new name is rendered necessary owing to the already existing *P. Reichenbachiana* Schltr. (1921). The new name refers to the cross-like appearance of the flower.

**Pleurothallis geminiflora** *Ames, Hubbard & Schweinfurth, nom. nov.*

*Pleurothallis biflora* Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 395, non Focke (1849).

Owing to the prior use of the combination *Pleurothallis biflora* by Focke in 1849 its use by Schlechter in 1918 is invalid, making a new name necessary.

**Pleurothallis integrilabia** *Ames, Hubbard & Schweinfurth, nom. nov.*

*Pleurothallis dryadum* Schlechter in Fedde Repert. Beihefte 19 (1923) 186, non Schltr. (1922).

Owing to the prior use of the combination *Pleurothallis dryadum* by Schlechter in 1922 its use by Schlechter in 1923 is invalid, making a new name necessary.

**Pleurothallis prorepens** (*Reichb.f.*) *Ames, Hub-*

*Hubbard & Schweinfurth*, comb. nov.

*Restrepia prorepens* Reichenbach filius in Gard. Chron. n.s. 7 (1877) 810.

*Barbosella prorepens* Schlechter in Fedde Repert. 15 (1918) 263.

This species has not heretofore been placed in *Pleurothallis* and its transfer to that genus makes a new combination necessary.

**Malaxis Parthonii** Morr. var. **denticulata** (*Reichb.f.*) Ames, *Hubbard & Schweinfurth*, comb. nov.

*Microstylis Parthoni* Reichb.f. var. *denticulata* Reichenbach filius, Beitr. Orch. Centr.-Am. (1866) 100.

*Microstylis Wercklei* Schlechter in Beihefte Bot. Centralbl. 36, Abt. 2 (1918) 382.

*Malaxis Wercklei* Ames in Proc. Biol. Soc. Wash. 35 (1922) 85.

The transfer of this variety to *Malaxis* has not been made previously.

**Hexisea Amparoana** (*Schltr.*) Ames, *Hubbard & Schweinfurth*, comb. nov.

*Costaricaea Amparoana* Schlechter in Fedde Repert. Beihefte 19 (1923) 31.

We consider the genus *Costaricaea* Schltr. to be congeneric with *Hexisea* Lindl. The combination for this species under *Hexisea* has not been made previously.

**Scaphyglottis corallorrhiza** (Ames) Ames, *Hubbard & Schweinfurth*, comb. nov.

*Pachystele corallorrhiza* Ames in Sched. Orch. 9 (1925) 45.

We consider the genus *Pachystele* Schltr. to be congeneric with *Scaphyglottis* Poepp. & Endl. The combination for this species under *Scaphyglottis* has not been

made previously.

**Bletia Lankesteri** (*A. & S.*) *Ames, Hubbard & Schweinfurth, comb. nov.*

*Limodorum Lankesteri* Ames & Schweinfurth in *Sched. Orch.* 10 (1930) 78.

As this species has not heretofore been recorded under *Bletia* a new combination is necessitated. The retention of *Limodorum* as the generic name of the well-known European species, *L.abortivum* Sw., restores *Bletia* as a valid generic name.

**Kefersteinia lactea** *Reichenbach filius apud B.D. Jackson in Index Kewensis* 2 (1895) 4.

*Zygopetalum lacteum* Reichenbach filius in *Gard. Chron.* (1872) 1290.

The authority usually cited for the combination *Kefersteinia lactea* is Reichb.f. in *Gard. Chron.* (1872) 1290. The actual combination published there is *ZYGO-PETALUM (KEFERSTEINIA) LACTEUM, n. sp.* The earliest appearance of the combination *Kefersteinia lactea* that we have found is in *Index Kewensis*, as cited above.

**Maxillaria angustissima** *Ames, Hubbard & Schweinfurth, nom. nov.*

*Maxillaria acutifolia* Schlechter in *Fedde Repert. Beihefte* 19 (1923) 229, non Lindley (1839).

Owing to the prior use of the combination *Maxillaria acutifolia* by Lindley in 1839 its use by Schlechter in 1923 is invalid, making a new name necessary.

**Maxillaria flava** *Ames, Hubbard & Schweinfurth, nom. nov.*

*Ornithidium ramonense* Schlechter in *Fedde Repert. Beihefte* 19 (1923) 243, non *Maxillaria ramonensis* Schltr.

We consider that this species is referable to *Maxillaria* rather than to *Ornithidium*. As there is already a *Maxillaria ramonensis* Schltr., a new name is rendered necessary in transferring the species.